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CONNOLLY BOVE LODGE & HUTZ LLP SUITE 800			POMPEY, RON EVERETT	
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Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Etherborne (in the many be available under the provision of 3 CPR 1.136g). In one event, however, may a reply be timely filed Etherborne (in the price of the price of the price of the price of the period for reply specified above is less than theiry (30) days, a reply which the solution price of the price of the period for reply will be solved for reply by any will be good for reply the time allied gate of this communication. Final price to reply which the set or extended price of the price of th		Application No.	Applicant(s)				
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1) Responsive to communication(s) filed on	THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing	6(a). In no event, however, may a reply be timwithin the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONED	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
2a) This action is FINAL. 2b) This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 20-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 20-27 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to by the Examiner. 4pplication Papers 9) The specification is objected to by the Examiner. 4pplication Papers 9) The proving objected to by the Examiner. 4pplicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Information Disclosure Statement(s) (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)	Status	•					
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12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. **Attachment(s) Notice of References Cited (PTO-892)	11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
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2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. **Attachment(s)* 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) **TACY A. WHITMORE PRIMARY EXAMINER **PRIMARY EXAMINER* **Paper No(s)/Mail Date **Disclosure Statement(s) (PTO-1449 or PTO/SB/08) **TACY A. WHITMORE PRIMARY EXAMINER **PRIMARY EXAMINER* **Paper No(s)/Mail Date **Disclosure Statement(s) (PTO-1449 or PTO/SB/08) **Disclosure Statement(s) (PTO-152)	a) ☐ All b) ☐ Some * c) ☐ None of:		-(d) or (f).				
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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 20 27 rejected under 35 U.S.C. 102(b) as being anticipated by Nakagawa et al. (US 5,241,210).

Nakagawa discloses the limitations of:

forming first (59a and 54a fig. 17) and second diffusion regions in a semiconductor substrate; forming a trench (53, fig. 16) structure around said first and second diffusion regions; and forming a contact on said trench structure and said substrate (63a, fig. 17) for controlling current through said diffusion regions; and

forming first (61a, fig.17) and second gates over said first and second diffusion regions with source (56a, and 58a, fig. 17) and drain regions formed in said diffusion on each side of said gate (col. 7, Ins. 25-56 and col. 9, Ins. 36-48). It is inherent with a semiconductor device that with an applied potential, voltage or current, across a contact

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in a particular diffusion region; a field is applied at that region which will increase or decrease the resistance across that region.

3. Claims 20 –27 are rejected under 35 U.S.C. 102(e) as being anticipated by Yamaguchi et al. (US 6,118,152).

Yamaguchi discloses the limitations of:

forming first and second diffusion regions (the fox regions 13a and 13b, fig. 1 define the diffusion regions) in a semiconductor substrate; forming a trench (5, fig. 1) structure around said first and second diffusion regions; and forming a contact on said trench structure (19a and 19b, fig. 1) and said substrate (18, fig. 1) for controlling current through said diffusion regions; and

forming first (15a, fig.1) and second (15b, fig.1) gates over said first and second diffusion regions with source (9, 12a and 12b, fig. 1) and drain regions formed in said diffusion on each side of said gate (col. 3, ln. 25 - col. 5, ln. 4). It is inherent with a semiconductor device that with an applied potential, voltage or current, across a contact in a particular diffusion region; a field is applied at that region which will increase or decrease the resistance across that region.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 21, 23 and 26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. For claim 21, the examiner does not see a

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mention of a gate. For claim 23, the examiner is confused what the limitation is trying to describe. For claim 26, the diffusion regions being formed in the trench structure or are

there trenches that surround the diffusion region. The examiner is taking it as seen in

the figures where trenches surround the diffusion region.

Claim Objections

6. Claims 20 and 23 objected to because of the following informalities: the examiner thinks it was a typo where the word "is" is used when –in- should have been

used. Please clarify which word should be used. Appropriate correction is required.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ron E Pompey whose telephone number is (571) 272-

1680. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John Niebling can be reached on (571) 272-1679. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Ron Pompey

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December 13, 2004

STACY A. WHITMORE PRIMARY EXAMINER

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